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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|----------------------|----------------------|------------------------|------------------|
| 10/567,974 | 02/10/2006 | T. Howard Killilea | 160-P-1582USWO | 7392 |
| 23322 7590 03/28/2007 IPLM GROUP, P.A. POST OFFICE BOX 18455 | | | EXAMINER | |
| | | | NILAND, PATRICK DENNIS | |
| MINNEAPOLIS, MN 55418 | | | ART UNIT | PAPER NUMBER |
| | | | 1714 | |
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| SHORTENED STATUTORY | Y PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MONTHS | | 03/28/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) | | | | |
|--|--|---|--|--|--|--|
| Office Action Summers | 10/567,974 | KILLILEA, T. HOWARD | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Patrick D. Niland | 1714 | | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE. | | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 10 Fe |)⊠ Responsive to communication(s) filed on <u>10 February 2006</u> . | | | | | |
| | | | | | | |
| 3) Since this application is in condition for allowar | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E | x parte Quayle, 1935 C.D. 11, 45 | 33 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) ☐ Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-33 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. | | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10. | epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/06,7/06. | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | te | | | | |

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1. The preliminary amendment of 2/10/06 has been entered. Claims 1-33 are pending.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 6166127 Tomko in view of US Pat. No. 5422392 Floyd et al..

Tomko discloses the instantly claimed invention except for the instantly claimed VOC. See the entire document. It is noted that Tomko does not disclose a reactant falling within the scope of that of the instant claim 3. However, since the claim is directed to the polyurethane of the claimed composition and the urethane contains a moiety meeting the requirements of claim 3 (e.g. a smaller portion of the urethane containing sulfonate and ethylenic groups as well as perhaps other urethane groups) and the skilled artisan could not tell how said moiety got there while looking only at the final urethane, the polyurethane of the patentee falls within the scope of the instant claim 3.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use the instantly claimed VOC in preparing the product of Tomko because such VOCs will meet current regulations regarding VOC, eliminate expensive and dangerous organic solvents, and are a well known expedient in the making of aqueous urethanes as taught by Floyd et at al. which would have been expected to give the benefits of low VOC to the dispersions of Tomko.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick D. Niland whose telephone number is 571-272-1121. The examiner can normally be reached on Monday to Thursday from 10 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick D. Niland Primary Examiner Art Unit 1714